

CA  
22.  
Catalytic desulfurization of shale and petroleum gas  
line. R. I. Kuznetsov, N. G. Khabibulin, and A. P. Chirgis  
Hull, Acad. Sci. U.R.S.S., (1959) No. 104, 1048, 1051 (in  
Russian).—Shale gasoline contg. 12% S (in the form  
of thiophene and its homologs) can be desulfurized to 5%  
in one run, to 1% in two runs, over a Ural bauxite contact  
mass at a rate  $v = 1$  vol. gasoline/vol. contact mass/hr.  
In contrast to various other bauxites, titanomagnetite,  
apatite, thionatite, pyrochlore, and chromite contact  
masses which showed a poor efficiency, two brown iron  
ores proved suitable: Khalilov ore,  $\text{Fe}_2\text{O}_3$  86,  $\text{Al}_2\text{O}_3$  8,  
 $\text{CaO}$  0.9,  $\text{MnO}$  0,  $\text{Cr}$  2.2,  $\text{SiO}_2$  12,  $\text{P}_2\text{O}_5$  2%, and Karel' ore  
57,  $\text{Fe}$  1.9,  $\text{Al}$  10,  $\text{SiO}_2$  10.5,  $\text{P}_2\text{O}_5$  1.9%. The ores, ground to 2-3  
mm grain size, were reduced at 300° for 2-3 hrs. in a total  
of 50 l.  $\text{H}_2$  (per 250 cc. ore). In desulfurization at 500°, at  
 $v = 0.3$  (75 cc. gasoline for 250 cc. catalyst), the S con-  
tent was reduced from 12 to 2.3% in one cycle. These  
catalysts can be further improved by activation with an  
soln. of 2% Mn or Mg in the form of acetate solns., drying  
at 120°, and reduction in  $\text{H}_2$ . Runs with the promoted  
catalysts on petroleum gasoline artificially sulfurized by  
soln. of thiophene  $\text{C}_4\text{H}_4\text{S}$  (to 10%, S),  $\text{C}_6\text{H}_6\text{S}$  (to 5%, S),  
and  $\text{C}_8\text{H}_8\text{S}$  (to 5%, S), at  $v = 0.5$ , at 300, 400, 450°,  
resulted in the final S contents:  $\text{C}_4\text{H}_4\text{S}$  0.2, 0.0, 0.2%;  
 $\text{C}_6\text{H}_6\text{S}$  1.5, 0.9, 1.10;  $\text{C}_8\text{H}_8\text{S}$  0.9, 0.2, 0.07%. Natural-  
ly S-contg. shale gasolines, at 450°, were desulfurized:  
at  $v = 0.5$ , from 1.4 to 0.1 and from 12.3 to 0.6%; at  $v =$   
0.2, from 6.0 to 0.2 and from 3.6 to 0.3%; at 400°,  $v =$   
0.5, straight-run gasoline, from 0.8 to 0.02%; cracked  
gasoline, from 0.9 to 0.1%. More prolonged reduction

of the catalysts results in higher activity, e.g., 2 and  
3 hrs. S brought down from 12 to 3 and 0.6%; further  
prolonged reduction is without further effect. In terms  
of temp., 300, 400, 450, 500°,  $v = 0.3$ , the 12.3% S shale  
gasoline was brought down to 0.2, 0.8, 0.8, 0.75%; S,  
the limit is consequently practically attained at 500°.  
Increased rate results in lower final desulfurization, e.g.,  
in the same shale gasoline,  $v = 0.1, 0.2, 0.3, 0.4, 0.5$ ,  
final S 0.25, 0.45, 0.8, 1.0, 2.3%. Poisoning of the cata-  
lyst occurs after passing 1.3 weights of gasoline per 1  
weight of catalyst, or 0.75 vol. per 1 vol.; regeneration is  
achieved with superheated steam, followed by an air stream  
of 300° for 2 hrs. and renewed reduction; loss of activity  
after 1, 3, 10 regenerations, is 10, 30, 60%. Desulfurized  
shale gasoline shows a higher content of low-boiling frac-  
tions than the original material and has an octane no. 82.  
Crude shale gasoline is desulfurized farther than the same  
gasoline previously  $\text{H}_2\text{SO}_4$ -purified (to 0.9 and 3.3% S,  
resp.); in the former case, the reaction is accompanied  
by abundant evolution of gas contg.  $\text{H}_2$ , which evidently  
promotes the desulfurization; intentional admixt. of  $\text{H}_2$   
to purified gasoline permits improving its desulfurization  
to a residual 1.8%; the  $\text{H}_2$  forming during the reaction is  
consequently more efficient than if added artificially.  
Petroleum-cracking gasoline, b. pt. 150, S 0.87%, 450°,

$\nu$  0.6, total run 2 weights/1 weight catalyst, resulted in 0.05% S, yield in gasoline 80%, gas evolved 200 l./l. gasoline, rich in  $H_2$  (over 80%); the fractional composition is not essentially changed; with 3 cc.  $Pb(C_2H_5)_2$ , the octane no. before and after desulfurization is 73 and 82. In reforming gasoline, b. 60-150°, S 0.28%, all S is removed at 220°,  $\nu = 1$ , with yields of 95%; regeneration is only necessary after passing 10 vols. gasoline per 1 vol. contact, as a result of desulfurization, aromatic content increases from 20 to 27%, unsatd. hydrocarbons decrease from 10 to 4%; octane no. with 3 cc.  $Pb(C_2H_5)_2$ /gal. rises from 81 to 87. Straight-run gasoline, b. 60-180°, S 0.50, can be completely desulfurized at  $\nu$  0.5 even with nonreduced catalysts; lifetime is 10 vols. gasoline/1 vol. contact.

N. Thun

EDEL'SHTEYN, N. G.

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# U S S R

Hydrocarbons, asphaltene, and resins removable by solvent gel in generator tar from Estonian shale. N. G. Edel'shteyn, *Isk. i Prikl. Khim.*, 1954, 27, 10, 1854-1858. (Chem. Abstr. 49:12004, 1955). Generator tars were separated into asphaltene, phenols, lignin, a phenol, and resins that could be removed from ligroine soln. by solvent gel. The hydrocarbons constituting about 80% of the total, consisted mainly of unsat'd cyclic compds., almost no paraffins were found. Cycloheptane and cyclohexene were found in the distillate fraction. The asphaltene content of tars was low, and the resin and phenol contents were high. O is present mainly in the forms of CO and COOH groups in the asphaltene and resins, which have mostly cyclic structures with 3-4 rings per mol. Asphaltenes and resins differ in composition and in their functional groups, but on exhaustive hydrogenation produce compds. of similar structure and mol. wts.

W. M. Sternberg

EDEL'SHTEYN, N. G.

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# USSR

Unsaturated hydrocarbons in the gasolines from sapropelic tars. N. G. Edel'shtein. *Trudy Inst. Khim. Akad. Nauk U.S.S.R.* 3, 120-3 (1954).—Diene hydrocarbons were found to be present in all the fractions of the gasolines, but their concn. was higher in the lower distn. range, reaching 6-8% in the lowest-boiling fraction.

W. M. Sternberg

WMS

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5(1)

AUTHORS: Faynberg, Ye. D., Edel'shteyn, O. Ye. SOV/64-59-2-6/23

TITLE: On the Ways of Utilizing Fluorine-containing Waste Gases of the Phosphorus Fertilizer Industry (O putyakh ispol'zovaniya otkhodyashchikh ftorgazov fosfornotukovoy promyshlennosti)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 2, pp 116-123 (USSR)

ABSTRACT: The utilization of fluorine-containing gases which are obtained in the production of superphosphate is much more developed in the USSR than in the western countries. In this connection sodium fluosilicate (I) is produced. Owing to a reduced demand of (I) the preparation of (I) to sodium fluoride (II) (70-75% NaF) was started in 1956-1957 at the Odessa, Vinnitsa and Voskresensk Superphosphate Works. Since the utilization of (II) is equally limited, some information concerning this subject is given by mentioning the following investigations: investigations are carried out in 1956 at the Gosudarstvennyy institut stekla (State Institute of Glass) point to a possibility of applying (I) in glass melting. At present, however, (I) is used only in two glass works ("Krasnyy Oktyabr" and Bytosh'). The efficiency of (I) in ore flotation was found at the Uralmekhanoobr. and Krasnoural'skiy medeplavil'nyy zavod (Krasnoural'sk Copper-melting Works), while work at the Giredmet

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deals with the application of (I) in extracting rare metals. Experimental investigations at the NIItsement, Giprotsement, and the Leningradskiy khimikotekhnologicheskii institut (Leningrad Chemico-technological Institute) prove the efficiency of (I) as a setting agent in the formation of cement. A series of research work was carried out on the production of other fluosilicates, salts for aluminum industry, as well as of (II) and potassium fluoride (III) from fluorine-containing waste gases of the phosphorus fertilizer industry. At the Institut biologii Ural'skogo filiala Akademii nauk SSSR (Institute of Biology of the Ural Branch of the Academy of Sciences of the USSR) positive results were obtained by applying ammonium fluosilicate (IV) as an antiseptic. Experiments made at the Institut novykh stroymaterialov Akademii nauk stroitel'stva i arkhitektury SSSR (Institute for New Building Materials of the Academy of Sciences of Building and Architecture of the USSR), as well as investigations carried out at the VNIIasbovmement showed the possibility of applying magnesium- and zinc- fluosilicate (V) and (VI) as agents for the treatment with fluosilicate. The possibility of producing (IV), (V), (VI), copper- and iron fluosilicate (VII) and (VIII) by neutralizing fluosilicic

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acid (FSA) with the corresponding reagents was found in 1947-1949 at the UNIkhim and tested on a semi-industrial scale (for (IV)) at the Vinnitsa works in 1951. Experiments concerning the production of (IV) were made also at the NIUIF, 1957-1958. At the Rizhskiy superfosfatnyy zavod (Riga Superphosphate Works) the (I)-production was adapted to the production of (IV). In 1939-1940 laboratory investigations were made at the GIPKh for the production of aluminum fluoride (IX) according to the ammonia method; the problem of producing (IX), however, was solved at the UNIkhim in 1953-1954 and the Krasnoural'skiy superfosfatnyy zavod (Krasnoural'sk Superphosphate Works) in 1957-1958 after a reaction of (FSA) with aluminum hydroxide. Cryolite (X) was produced from waste gases according to 3 methods: carbonization-, ammonia- and UNIkhim-method. Investigations dealing with the first method were carried out at the VAMI (1935-1939) and the NIUIF (1951-1955), as well as until 1941 (by roasting (I)) at the Dnepropetrovskiy alyuminiyevyy zavod (Dnepropetrovsk Aluminum Works). The second method was tested at the laboratories of the GIPKh, experiments, however, are not yet finished. The best of these three methods is that devised by the UNIkhim (1953-1954), which was tested at the

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Krasnoural'sk Works on a semi-industrial scale and completed and applied on industrial scale at the Odessa works. It is based on the reaction of the aluminum fluoride solution with (II). The production of high-per-cent calcium fluoride (XI) was tested according to a reaction scheme by A. G. Pavlovich at the NIOkhim in 1955, and according to the ammonia method at the NIUIF in 1957. Both methods, however, are rather complicated. At the NIUIF a method of producing low-per-cent (XI) was devised. This method should be applied at the Sumskiy superfosfatnyy zavod (Sumy Superphosphate Works) since its waste gases have the necessary composition. The dissociation method tested by the NIUIF on a semi-industrial scale at the zavod im. Voykova (Works imeni Voykov) in 1949-1951 was the first method to be applied in the production of (II) from (I) in the USSR. In 1950-1954, the thermal soda method was introduced at the department of the works which is now shut down. Since the production of (II) by these works has been stopped. (II) is produced by the Vinnitsa, Odessa, and Voskresensk works according to the suspension method devised by the NIUIF. Experiments concerning mechanical enrichment of dry (II) at the VKhK proved unsuccessful. Experiments were made at the UNIkhim

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in 1938-1939 and at the Polevskoy kriolitovyy zavod (Polevskoy Cryolite Works), in 1952, which dealt with the purification of (II), without being introduced into practice. At the UNIkhim (1934-36), VKhK (1952-53) and at the Odessa Works in the course of the last years the so-called caustic method of enrichment of (II) was tested. In the last years experiments were also made at the UNIkhim and the Odessa Works concerning the separation of the (II)-suspension by means of a "hydrocyclone". Experiments of salting out (II) from the solution were made at the NIUIF in 1953, while the ammonia method for producing (II) was tested at the GIFKh in 1936-41. The potash method is regarded as the most expedient method for producing (II), it was devised by the NIUIF and the NIikhP MMP RSFSR and examined in 1949-1952 in the laboratory, in 1953 on industrial scale at the Armavirskiy zavod MMP RSFSR (Armavir Works MMP RSFSR) and semi-industrially at the NIUIF test plant in 1955. According to the above explanations the preparation of fluorine-containing gases of the phosphorus fertilizer industry into salt for the aluminum industry is possible. As to the utilization of kieselguhr, reference is made to investigations carried out at the Voskresenskiy khimicheskiy Kombinat (Voskresensk Chemical Kombinat)

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in 1957-1958, where a product called "belaks" was obtained which may be used instead of the expensive "white carbon black". The production was taken up at the khimkombinat Maardu (Chemical Kombinat Maardu). There are 4 references.

Card 6/6

VOLOVICH, N.I.; KRASOVITSKAYA, A.M.; MIKULINSKAYA, R.M.; ZLATOPOL'SKAYA, R.D.;  
MDL'SHTYIN, R.I.; SAVITSKAYA, E.K.; PARKHOMENKO, L.I.; PERKACH, Y.S.,  
professor, direktor; ZIMINA, O.I.; SOKOLOV, G.S.; ISTOMIN, I.D.;  
GORDIYENKO, Ye.G.; KLYUCHNIKOVA, L.Sh.; NADTOKA, V.L.; KOCHINA, V.N.;  
AVTONOMOVA, L.V.; BEREZUB, L.G.; GOL'DENBERG, R.A.; BELAYA, O.S.;  
SAVCHENKO, A.M.

Study of efficacy of the enteral immunization against dysentery. Authors'  
abstract. Zhur.mikrobiol.epid.i immun. no.8:27 Ag '53. (MIRA 6:11)

1. Ukrainskiy institut epidemiologii i mikrobiologii im. I.I.Mechnikova v  
Khar'kove. (Dysentery)

IVLIYEV, I.V.; PETRUKHNOVSKIY, I.V. retsenzent.; KRIMNUS, G.Kh.  
retsenzent.; NAUMOV, G.I. retsenzent.; ORLOV, V.N.  
retsenzent.; TUCHKEVICH, T.M. retsenzent.; USHAKOV, P.S.  
retsenzent.; CHERNUKHA, N.T. retsenzent.; EDEL'SHTEYN,  
P.G. retsenzent.; KRISHTAL', L.I., red.; VINNICHENKO, N.G.,  
kand. ekon. nauk, red.; USENKO, L.A., tekhn.red.

[Finance and the financing of railroad transportation] Fi-  
nansy i finansirovanie zheleznodorozhnogo transporta. Mo-  
skva, Transzheldorizdat, 1963. 439 p. (MIRA 17:2)

EDEL'SHTEYN, S. A.

62/49T31

USSR/Engineering

Boiler

Water Purification

Jul 49

Determination of Excess Phosphates in Boiler  
Waters Employing Cationization," S. A.  
Edel'shteyn, V. I. Petatskiy, GRS-4, Khar'kov  
Power System, 2 pp

"Zavod Lab" No 7

Shows deficiencies in usual laboratory methods  
of determining phosphate content (important for  
establishing correct water conditions for boilers  
since ions of  $PO_4^{3-}$  are not taken into account  
if the colored phosphomolybdic complex occurs

62/49T31

USSR/Engineering (Contd)

Jul 49

in a strongly acid medium in which phosphate  
sediment dissolves easily. Notes drawbacks  
of method proposed in 1945. Authors solved  
problem by using cation solutions. Tabulates  
results of tests on several boilers.

62/49T31

COMMON ELEMENTS		PROCESSING AND PROPERTY NOTES	
F		M	
<p>5017. DETERMINATION OF EXCESS OF PHOSPHATES IN BOILER WATER BY USING CATION EXCHANGE AGENTS. Edelshtein, S. A. and Petatskii, V. I. (Zavodskaya Lab. (Factory Lab.), 1949, vol. 15, 850-851; abstr. in Chem. Abstr., 1950, vol. 44, 776).</p> <p>Cation-exchange resins (unstated nature) are used to adsorb Ca and Mg from boiler water in a vertical column (gravity feed) with elution successively by 50 m.l. 5% HCl and 50 m.l. water, the eluate is neutralized to phenolphthalein by NaOH and hardness is determined by the oleate method. The phosphate excess is calculated by <math>(P_2O_5)</math> excess = <math>(P_2O_5)_{total} - 10</math> (hardness), where hardness is expressed in degrees.</p>			
A S S A METALLURGICAL LITERATURE CLASSIFICATION			
FROM SOURCE		TO SOURCE	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	

GEORGIYEV, A.G., inzh.; MAROV, I.F., inzh.; PETATSKIY, V.I., inzh.;  
EDEL'SHTEYN, S.A., inzh.

Automatic regulator for continuous blowdown and recording salinometer  
for feed-water. Elek.sta. 28 no.12:13-14 D '57. (MIRA 12:3)  
(Boilers) (Feed water)



VOLESNIKOVA, R.S.; RODYGINA, G.V.; KDEL'SHEYN, S.I.

Use of penicillin aerosols in chronic suppurative processes of the lung. Khirurgiia 32 no.8:39-41 Ag '56. (MIRA 9:12)

Is fakul'tetskoy khirurgicheskoy kliniki imeni S.I.Spasokukotskogo (zav. - prof. A.N.Bakulef) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina i otdela eksperimental'noi terapii (zav. - prof. Z.V.Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(LUNG DISEASES, ther.

penicillin aerosols in chronic suppuration)

(PENICILLIN, ther. use

chronic suppuration of lungs, admin. in aerosol form)

(AEROSOLS, ther. use

penicillin in chronic suppuration of lungs)

VEYS, R.A.; EDEL'SHTEYN, S.I. (Moskva)

Erythromycin (erythrocin, ilotyoin). Terap.arkh. 32 no.11:80-84  
N '60. (MIRA 14:1)  
(ERYTHROMYCIN)

EDEL'SHTEYN, Sh.N.

Role of health education in the prevention of acute gastrointestinal diseases. Zdrav. Ros. Feder. 5 no. 4:16-18 Ap '61. (MIRA 14:4)

1. Iz 38-y polikliniki (glavnyy vrach G.A. Kulichenko) Smol'ninskogo rayona Leningrada.

(HEALTH EDUCATION) (DIGESTIVE ORGANS--DISEASES)

EDEL'SHTEYN, S. Z.

Aslanova, M. S. and Edel'shteyn, S. Z. - "Physico-engineering properties of glass fibers," In the symposium: Fiz.-tekhn. svoystva i primeneniye steklovoloknistykh materialov, Moscow-Leningrad, 1949, p. 71-101

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

EDEL'SHTEYN, V. I.

Kvaratskhelia, T. K., Shitt, P. G. and Edel'shteyn, V. I. "The trend in training  
agronomical personnel for subtropical farming," (Articles) Vestnik vyzh. shkoly,  
1949, No. 3, p.27-33

SO: U-4034, 29 Oct 53. (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

1. EDEL'SHTAYN, V. I., Prof.
2. USSR (600)
4. Vegetable Gardening
7. Most important problems for research in vegetable gardening in the light of the decisions of the 19th Party Congress, Sad 1 og., No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

EDEL'SHTEIN, V.I.

Za vysokie urozhai ovoshchei (For high yields of vegetables). Moskva, Selkhozfiz. 1954.  
39 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

EDEL'SHTEIN, V. [1.]

Novye metody vyrashchivaniia ovoshchei (New ways of growing vegetables).  
Moskva, "Molodaia gvardiia," 1954. 56 p. (Besedy uchenykh o sel'skom  
khoziaistve)

SO: Monthly List of Russian Accessions, Vol 7, No. 7, 1954



~~MDL'SHTEYN~~, V.I., professor, doktor sel'skokhozyaystvennykh nauk;  
SAVINOVA, N.I., kandidat sel'skokhozyaystvennykh nauk.

Raising seedlings in peat-humus pots and in enriched cubes.  
Est.v shkole no.2:17-22 Mr-Apr '54. (MLRA 7:3)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Savinova). (Vegetable gardening)

EDEL'SHTEYN, V. I.

USSR/Agriculture - Planting

Card 1/1

Author : Edel'shteyn, V. I., Dr. of Agric. Sci., Prof.

Title : Protecting sprouts with paper

Periodical : Nauka i Zhizn' 21/4, insert page before 17 and 17-18, April 1954

Abstract : The Department of Vegetable Culture of the K. A. Timiryazev Agricultural Academy in Moscow has developed a new method of sowing vegetable seeds. A machine lays a ribbon of bituminized paper provided with holes for the seeds. The machine also covers the paper with one or two centimeters of earth. The paper chokes the growth of weeds but the plants grow through the openings. Photographs.

Institution : ....

Submitted : ....

EDEL'SHTAYN, V.I.

[Private vegetable garden] Individual'nyi ogorod. 8.izd. stereotipnoe. Moskva, Gos. izd-vo sel'skokhoz. lit-ry, 1956. 112 p.  
(Vegetable gardening) (MIRA 11:9)

EDEL'SHTEYN, V.I.

BENEDIKTOV, I.A., redaktor; GRITSSENKO, A.V., redaktor; IL'IN, M.A., zamestitel' glavnogo redaktora, LAPTEV, I.D., LISKUN, Ye.F.; LOBANOV, P.P., glavnyy redaktor; LYSENKO, T.D.; SKRYABIN, K.I.; STOLKTOV, V.N.; PAVLOV, G.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SOKOLOV, N.S., professor, nauchnyy redaktor; ANTIPOV-KARATAYEV, I.N., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KARPINSKIY, N.P., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHESTAKOV, A.G., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; RUBIN, B.A., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KOMARNITSKIY, N.A., dotsent, nauchnyy redaktor; LYSENKO, T.D., akademik, nauchnyy redaktor; POLYAKOV, I.M., professor, nauchnyy redaktor; SHCHEGOLEV, V.N., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; YAKUSHKIN, I.V., akademik, nauchnyy redaktor; LARIN, I.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; SMELOV, S.P., professor, doktor biologicheskikh nauk, nauchnyy redaktor; EDEL'SHTEYN, V.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHCHERBACHEV, D.M., professor, doktor meditsinskikh nauk, nauchnyy redaktor; OGOLEVETS, G.S., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; YAKOVLEV, P.N., akademik, nauchnyy redaktor; YEKIMOV, V.P., agronom, nauchnyy redaktor [deceased], KYTINGEN, G.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; TIMOFEEV, N.N., professor, nauchnyy redaktor; TUROV, S.I., professor, doktor biologicheskikh nauk; YUDIN, V.M., akademik, nauchnyy redaktor; LISKUN, Ye.F., akademik, nauchnyy redaktor; VITT, V.O., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KALININ, V.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor.

(Continued on next page)

BENEDIKTOV, I.A.--- (continued) Card 2.

GRUBEN', L.K., akademik, nauchnyy redaktor; NIKOLAYEV, A.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; RED'KIN, A.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SMETNEV, S.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POPOV, I.S., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; MANTYFEL', P.A., professor, nauchnyy redaktor; INIKHOV, G.S., professor, doktor khimicheskikh nauk, nauchnyy redaktor; ANTIMOV, A.N., professor, nauchnyy redaktor; GUBIN, A.F., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POLTAV, V.I., professor, doktor veterinarnykh nauk, nauchnyy redaktor; LINDE, V.V., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; CHERGAS, B.I., professor, doktor biologicheskikh nauk, nauchnyy redaktor; NIKOL'SKIY, G.V., professor, nauchnyy redaktor; AVTOKRATOV, D.M., professor, doktor veterinarnykh nauk, nauchnyy redaktor; IVANOV, S.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; VIKTOROV, K.P., professor, doktor veterinarnykh nauk, nauchnyy redaktor; KOLYAKOV, Ya.Ye., professor, doktor veterinarnykh nauk, nauchnyy redaktor; ANTIFIN, D.N., professor, doktor veterinarnykh nauk, nauchnyy redaktor; MARKOV, A.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; DOMRACHEV, G.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor; OLIVKOV, B.M., professor, doktor veterinarnykh nauk, nauchnyy redaktor [deceased]; FLEGMATOV, N.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; BOLTINSKIY, V.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; VIL'YAMS, Vl.P., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; KRASHNOV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor;

BENEDIKTOV, I.A.---(continued) Card 3.

YEVREMINOV, M.G., akademik, nauchnyy redaktor; SAZONOV, N.A., doktor tekhnicheskikh nauk, nauchnyy redaktor; NIKANDROV, B.I., inzhener, nauchnyy redaktor; KOSTYAKOV, A.N., akademik, nauchnyy redaktor; CHERKASOV, A.A., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; DAVITAYA, F.F., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; IVANOV, N.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; LOZA, G.M., kandidat ekonomicheskikh nauk, nauchnyy redaktor; CHERNOV, A.V., kontrol'nyy redaktor; ZAVARSKIY, A.I., redaktor; ROS-SOSHANSKAYA, V.A., redaktor; FILATOVA, N.I., redaktor; YEMEL'YANOVA, N.I., redaktor; SILIN, V.S., redaktor BRANZBURG, A.Yu., redaktor; MAGNITSKIY, A.V., redaktor terminov; KUDRYAVTSEVA, A.G., redaktor terminov; AKSENOVA, A.P., mladshiy redaktor; MALYAVSKAYA, O.A., mladshiy redaktor; FEDOTOVA, A.F., tekhnicheskii redaktor

(Continued on next card)

BENEDIKTOV, I.A.---(continued) Card 4.

[Agricultural encyclopedia] Sel'skokhoziaistvennaia entsiklopediia.  
Izd.3-e, perer. Moskva, Gos. izd-vo selkhoz. lit-ry. Vol.5. [T-IA.]  
1956. 663 p. (KIRA 9:9)  
(Agriculture—Dictionaries and encyclopedias)

~~EDDEL'SHEEYN~~, V.I., professor.

Production line .... in the vegetable garden. Znan.sila 31 no.2:  
17-18 F '56. (MLRA 9:5)  
(Vegetable gardening)



EDEL'STEYN, Vitaliy Ivanovich

[Private garden plots] Individual'nyi ogorod. 9 izd. Moskva,  
Gosudarstvennoe izd-vo sel'skokhoziaistvennoi lit-ry, 1957. 111 p.  
(Vegetable gardening) (MIRA 12:4)

EDEL'SHTEYN V.I.

ZIMINA, Tat'yana Alekseyevna; ~~POKUSHAYEV, V.I.~~, prof., otvetstvennyy red.;  
KRYLOV, S.V., red.isdatel'stva; ~~POKUSHAYEV, S.M.~~, tekhn.red.

[Vegetable gardening in Sakhalin] Ovoshchevodstvo na Sakhaline.  
Moskva, Izd-vo Akad.nauk SSSR, 1957. 241 p. (MIRA 10:11)  
(Sakhalin--Vegetable gardening)

*EDELSHTEYN, V.I.*

USSR/Cultivated Plants. Potatoes. Vegetables. Melons

M-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1574

Author : V.I. Edil'shtayn  
Inst : Moscow Order of Lenin Agricultural Academy imeni K.A. Timiryazev  
Title : The Agrotechny of Producing of Early Vegetables on Open Land

Orig Pub : Sad i ogorod, 1957, No 1, 10-18

Abstract : The achievements of the TSKhA [The Moscow "Order of Lenin  
Agricultural Academy imeni K.A. Timiryazev" Vegetable Test  
Station and the National Research Institute for Vegetable Cul-  
tivation in obtaining large harvests of vegetable cultures  
have been cited.

Card : 1/1

USSR / Cultivated Plants. Potato. Vegetables. Melons. M-4

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72965.

Author : Edel'shteyn, V. I.

Inst : Not given.

Title : Raising Potatoes by Seeds.

Orig Pub: Kartoffel', 1957, No 2, 25-29.

Abstract: At the vegetable experimental station of the TAA [Timirzayev Agricultural Academy], early plantings of potato seeds gave the best effect with a distribution of 45 x 8 and 45 x 4 cm. The average potato harvest in open ground comprised 6-10 t, in warm ground 19 t; in a planting arrangement of 7 x 4 cm to obtain potato seeds for hand sowing, a harvest of 33 t/ha was obtained. By raising potatoes to seedlings and planting June 8 with a feeding area 60 x 30 cm, a harvest of 25.5-41 t/ha was obtained. -- V. K. Sal'nikov.

Card 1/1

NOEL'SHTYIN, V.I.

[Manual of practical work in vegetable gardening] *Ekovodstvo k  
prakticheskim zaniatiyam po ovoshchevodstvu. 2., perer. izd. Moskva,  
Gos. izd-vo selkhoz. lit-ry, 1958. 239 p. (MIRA 11:10)  
(Vegetable gardening)*

~~EDEL'SHTEYN~~ Vitaliy Ivanovich, pochetnyy akademik.

About our green friends. IUn.nat.no.1:29-32 Ja '58. (MIRA 10:12)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.V.I.Lenina.  
(Vegetable gardening—Study and teaching)

EDEL'SHTEYN, V.I.

ATABEKOVA, A.I., doktor sel'skokhozyaystvennykh nauk; MATSURIAN, N.A., doktor sel'skokhozyaystvennykh nauk, prof.; MEOHUL', A.M., doktor sel'skokhozyaystvennykh nauk, prof.; EDEL'SHTEYN, V.I., pochetnyy akademik.

A Soviet scientist, Academician N.I. Vavilov. Izv. TSEKhA no.1(20): 221-228 '58. (MIRA 11:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Edel'shteyn).

(Vavilov, Nikolai Ivanovich, 1887-1942)

COUNTRY : USSR  
 CATEGORY : Cultivated Plants. Potatoes, Vegetables, Cucurbits. M  
 ABS. JOUR. : RZhBiol., No. 23 1958. No. 104693  
 AUTHOR : Edel'shtein, V. I., Tarakanov, G. I.  
 INST. :  
 TITLE : On Transparent Tarpaulins.  
 ORIG. PUB. : Sud 1 ogorod, 1958, No. 4, 29-31  
 ABSTRACT : On the tests (since 1952) of 7 types of tarpaulins at the Vegetable Experiment Station of TSNA. Recommended for practical utilization are polyethylene tarpaulins distinguished by frost resistance (to  $-60^{\circ}$ ) and tensile strength (130-300 kg) and polyamide tarpaulin RA-4 ("perfol") with tensile strength of 1250-1300 kg/cm<sup>2</sup>. In greenhouses, upon covering with tarpaulin, the soil temperature rose by  $1.5-2^{\circ}$ , and the temperature of the air - by  $3-4^{\circ}$ .

Card: 1/1

53



EDDEL'SHTEYN, V.I.

Mulching seedbeds. Nauka 1 pered. op. v sel'khoz. 8 no.8:44-47

Ag '58.

(MIRA 11:10)

1.Vsesoyuzhaya akademiya sel'skokhozyaystvennykh nauk im. V.I.  
Lenina.

(Mulching) (Vegetable gardening)

EDDEL'SHT'YIN, V.I.

Advice to vegetable gardeners. Rab. 1 sial. 74 no.4:3 of cover. Ap  
'58. (MIRA 11:5)  
(Vegetable gardening)

ALISOV, M.S.; EDEL'SHTEYN, V.I., red.

[Vegetables and potatoes on flood lands] Ovoschi i kartofel'  
na poimennykh zemliakh. Moskva, Gos.izd-vo sel'khoz.lit-ry,  
1959. 237 p. (MIRA 13:7)  
(Vegetable gardening) (Potatoes)  
(Alluvial lands)

TIMOFEYEV, Nikolay Nikolayevich, prof.; VOLKOVA, A.A., dotsent;  
CHIZHOV, S.T., dotsent; EDEL'SHTEYN, V.I., pochetnyy akademik,  
retsenzent; KVASNIKOV, B.V., prof., retsenzent; GRACHEVA, V.S.,  
red.; BALLOD, A.I., tekhn.red.

[Vegetable breeding and seed production] Selektatsia i semeno-  
vodstvo ovoshchnykh kul'tur. Moskva, Gos.izd-vo sel'khoz.lit-ry,  
1960. 478 p. (MIRA 14:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.  
Lenina (for Edel'shteyn).  
(Vegetables)

EDEL'SHTEYN, V.I., prof., doktor sel'skokhozyaystvennykh nauk,  
pochetnyy akademik; KOCHETKOV, V.P., aspirant

Methods of placing strip paper mulch in mechanized planting of  
carrots [with summary in English]. Izv. TSKhA no.2:85-97 '61.

(MIRA 14:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
Lenina (for Edel'shteyn).  
(Mulching) (Carrots)

EDITION . Vitaliy Ivanovich, akademik, Gercy Sotsialisticheskogo  
Pruda

You are going to live under communism! IUn. nat. no.10:4-9  
0 '61. (MIRA 14:10)

(Communism)  
(Agriculture)

EDEL'SHTEYN, V.I., prof.

Reciprocal influence of vegetable crops. Priroda 50 no.9:123-  
124 S '61. (MIRA 14:8)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im.  
K.A. Timiryazeva.  
(Vegetable gardening)  
(Allelopathy)

VASILENKO, Nikolay Grigor'yevich, kand. sel'khoz. nauk; EDEL'SHTEYN,  
V.I., akademik, Geroy Sotsialisticheskogo Truda, red.;  
TAIROVA, V.N., red.; BALLOD, A.I., tekhn. red.

[Rare vegetables and spice plants] Malorasprostrannyye ovoshchi  
i prianye rasteniya. Pod red. V.I. Edel'shteina. Moskva, Sel'-  
khozizdat, 1962. 215 p. (MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.  
Lenina (for Edel'shteyn). (Herbs) (Vegetables)



EDEL'SHTEYN, Vitaliy Ivanovich, prof.; BYKOVA, M.G., red.; CHELYSHKIN,  
Yu.G., red.; GUREVICH, M.M., tekhn. red.; BALLOD, A.I.,  
tekhn. red.

[Vegetable gardening]Ovoshchevodstvo. 3., perer. izd. Mo-  
skva, Sel'khozizdat, 1962. 439 p. (MIRA 16:2)  
(Vegetable gardening)

EDEL'SHTEYN, V.I., pochetyy akademik

Some characteristics of the growth, development, and formation  
of the vegetable crop as a basis for cultivation practices.  
Izv. TSKHA no.6:7-17 '62. (MIRA 16:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
Lenina.  
(Vegetable gardening)

ZOLOTAHEV, V.; VASIL'YEVA, Ye., red.; EDEL'SHTEYN, V.I., akad., red.;  
POKHLEBKINA, M., tekhn. red.  
[Cucumbers] Ogurtay. Pod red. V.I. Edel'shteina. Moskva,  
Moskovskiy rabochii, 1963. 79 p. (MIRA 16:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.  
V.I. Lenina (for Edel'shteyn).  
(Cucumbers)

DEVOCHKIN, F.A., kand. sel'skokh. nauk, dotsent; DIANOV, V.I., aspirant;  
EDEL'SHTEYN, V.I., pochetnyy akademik, nauchnyy rukovoditel'

Cotton plants in sowing under paper strips. Izv. TSKHA no.1:  
7-11 '63. (MIRA 16:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk Imeni  
Lenina (for Edel'shteyn).  
(Cotton growing) (Mulching)

EDEL'SHTEYN, V.I., pochetnyy akademik

Into the knapsack of a detachment. IUn.nat. no.3:6-7 Mr '63.  
(MIRA 16:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
Lenina.

(Potatoes)

EDEL'SHTAYN, V.I., pochetnyy akademik; PAPONOV, A.M., staryiy nauchnyy  
sotrudnik, kand. sel'skokhoz. nauk

Effect of space arrangement and soil fertility on the development  
and formation of sex in some monoecious plants. Izv. ANSRA no.2:  
138-143 '64. (MIRA 17:12)

1. Kafedra ovoshchevodstva Moskovskoy ordena Lenina sel'skokhozyayst-  
vennoy akademii im. K.A. Timirязeva (for Paponov). 2. Vsesoyuznaya  
akademiya sel'skokhozyaystvennykh nauk im. Lenina (for Edel'shteyn).

EDEL'SHTEYN, V.I., pochetnyy akademik

Overall mechanization of growing vegetables, industrial crops, and potatoes. Izv. TSKHA no.4:48-60 '64.

(MIRA 17:11)

1. Kafedra ovoshchevodstva Sel'skokhozyaystvennoy akademii imeni Timiryazeva. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.

ANTONYUK, B.N.; DENESYUK, I.P.; KUROV, Yu.P.; VAYNSHTEYN, A.I.; BERDNIKOV, V.A.;  
VEYTSMAN, M.B.; IVANOV, A.A.; IVANOV, A.S.; GAYEVSKIY, B.A.; KOZEL'TSEV,  
L.K.; KOZEL'TSEV, L.I.; KIVALDIN, S.G.; MIROSHIN, A.I.; MIKOV, G.Ye.;  
ZUBKOVSKIY, B.P.; IZYUMOV, B.N.; EDEL'SHTEYN, V.I.; KOCHETKOV, V.P.;  
BUBLIKOV, A.V.; DZHANASHIYA, V.A.

Patents. Bus. 1 der. prom. no.1:53-54 Ja-Mr '65.

(MIRA 18:10)



EDEL'SHTEYN, V.I., poshetnyy akademik; SABUROV, N.V., prof.; TIPOFFEV,  
N.N., prof.; TABAKANOV, G.I., dotsent; VOL'F, N.M.

Vegetable Experiment Station, the oldest experimental basis of  
scientific vegetable gardening. Izv. TSKHA no.2:192-217 '65.  
(MIRA 18:9)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
Lenina (for Fdel'shteyn). 2. Direktor oveshchnoy opytной  
stantsii Moskovskoy akademii sel'skokhozyaystvennykh nauk  
imeni Timiryazeva (for Vol'f).

BLINCHEVSKIY, M.Z.; FILATOV, N.A., zapl. agronom RSFSR, retsenzent;  
EDEL'SHTEYN, V.I., akademik, red.[deceased]; SOKOLOVA, G.,  
red.

[Manual on the growing of vegetables under glass] Spravochnik po ovoshchevodstvu zashchishchennogo grunta. Moskva, Mosk. rabochii, 1965. 243 p. (MIRA 18:12)

CHIZHIKOV, D.M.; EDEL'SHTEYN, V.M.

Distribution coefficient of tin in selenium. Fiz. tver. tela 2  
no.5:863-865 My '60. (MIRA 13:10)

1. Institut metallurgii im. A.A.Baykova An SSSR, Moskva.  
(Selenium) (Tin)

S/080/62/035/009/002/014  
D204/D307

AUTHORS: Tsvetkov, Yu.V., and Edel'shteyn, V.M.

TITLE: The influence of pressure on the activity of components  
in boiling alloys of cadmium and zinc

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 9, 1962,  
1927 - 1933

TEXT: The above problem was investigated to determine the effect of pressure on the effectiveness of separation (e.g. by distillation) of components possessing similar, high boiling points, from their mixtures. Analytical purity metals were used. The boiling points (T) of alloys containing 0, 25, 50, 60, 75 and 100 mole % Cd were measured between 100 and 3800 mm Hg and were found to range respectively from 735 to 1090, 650 to 1000, 633 to 977, 627 to 967, 623 to 957 and 610 to 930°C for the above compositions. Good linear relationships were obtained by plotting  $\log \pi$ , where  $\pi$  = pressure, against  $1/T$  (°K). The activity coefficients of Cd ( $\gamma$ ) were calculated with the aid of van Laar's equation for molar fractions of Cd of 0.05, 0.1, 0.25, 0.4, 0.5, 0.6, 0.75, 0.9 and 0.95, between 100  
Card 1/2

The influence of pressure on ...

S/080/62/035/009/002/014  
D204/D307

and 3800 mm Hg, finding values:  $\gamma_{100} = 2.343, 2.149, 1.701, 1.405,$   
 $1.266, 1.163, 1.060, 1.009, 1.002$  and  $\gamma_{3800} = 1.364, 1.322, 1.213,$   
 $1.132, 1.090, 1.056, 1.022, 1.003$  and  $1.001$  for the above composi-  
 tions respectively. These values were in fair agreement with those  
 calculated from  $\log \gamma = \frac{\Delta \bar{H}}{4.576T}$ , where  $\Delta \bar{H}$  is the partial heat of so-  
 lution. Thus Cd-Zn systems showed positive deviations from Raoult's  
 law, which increased at lower pressures and at higher contents of  
 Zn. The efficiency of separation of the two components by distilla-  
 tion or rectification should therefore be promoted by lowering the  
 external pressure. There are 4 figures and 3 tables. ✓

ASSOCIATION: Institut metallurgii imeni A.A. Baykova, AN SSSR  
 (Institute of Metallurgy imeni A.A. Baykov, AS USSR)

SUBMITTED: June 19, 1961

Card 2/2

S/076/62/036/012/013/014  
B101/B180

AUTHORS: Tsvetkov, Yu.V., Edel'shteyn, V. M., and Tagirov, I. K.  
(Moscow)

TITLE: Method of studying the liquid - vapor equilibrium of high-boiling mixtures at pressures other than atmospheric

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 12, 1962, 2806 - 2808

TEXT: An apparatus with vapor recirculation based on one by J. Othmer (Ind. Eng. Chem., 20, 743, 1928) is suggested for determining the liquid - vapor equilibrium of high-boiling alloys. 2500 g of the alloy are heated in an evaporator at constant temperature. The temperature in the steam receiver is kept just above the dew point, while in the condenser it is kept below dew point, but above boiling point. As soon as equilibrium is established, samples taken from condenser, evaporator, and recirculator are analyzed. A cadmium - zinc system was used to test this method. The liquid-vapor equilibrium diagram was plotted for alloys containing 0, 25, 50, 75, and 100 mole% Cd at pressures of 200, 760, and 2280 mm Hg (Fig. 3). There are 3 figures.  
Card 1/2

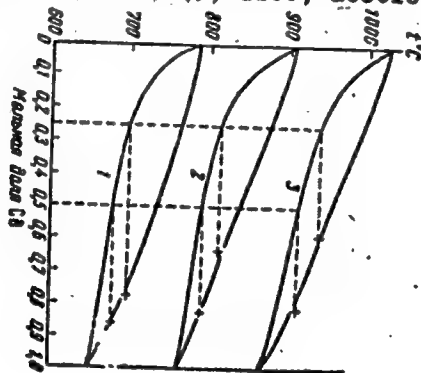
Method of studying the ...

S/076/62/036/012/013/014  
B101/B180

ASSOCIATION: Institut metallurgii im. A. A. Baykova (Institute of Metallurgy imeni A. A. Baykov)

SUBMITTED: March 22, 1962

Fig. 3. Liquid - vapor equilibrium diagram in the Cd - Zn system; pressures in mm Hg : (1) 200; (2) 760; (3) 2280; abscissa : molar part of Cd.



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3-524  
S/020/62/143/003/027/029  
B101/B144

18 1290

AUTHORS: Chizhikov, D. M., Corresponding Member AS USSR, Tsvetkov, Yu. V., and Edel'shteyn, V. M.

10

TITLE: The liquid-vapor equilibrium of high-boiling mixtures at pressures deviating from the atmospheric with the cadmium-zinc system as example

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 3, 1962, 655 - 657

TEXT: An experimental determination of the liquid-vapor equilibrium in autoclaves was carried out with internal heating. The apparatus was evacuated, filled with inert gas, and a certain constant pressure maintained. Two series of experiments were carried out: (a) determination of the dependence of the b.p. on the composition of the Cd-Zn alloy (0-100% Cd) and the pressure (100 - 3800 mm Hg); (b) determination of the effect of pressure on the composition of the vapor in the case of recirculation of the condensed vapor. In the series (a) the alloys were heated in graphite crucibles and the temperature recorded with an ЭПП-09 (EPP-09) recording electronic potentiometer. For the second series an equilibrium apparatus

Card 1/2



The liquid-vapor equilibrium...

S/020/62/143/003/027/029  
B101/B144

of graphite similar in principle to D. F. Othmer's (see below) was used. The activity coefficients of the components were calculated from the experimental data, and by means of these and the temperature dependence of the vapor pressure, the equilibrium diagram liquid-vapor was plotted (Fig. 2). Because of the discovery of the positive deviation of the system examined from the law for ideal solutions, decrease in pressure is presumed to facilitate the separation of Cd from Zn in the case of distillation or rectification. The data obtained by means of the recirculation apparatus confirm the results. There are 2 figures and 7 references: 3 Soviet-bloc and 4 non-Soviet-bloc. The four references to English-language publications read as follows: D. F. Othmer, Ind. and Eng. Chem., 35, no. 5, 6'4 (1943); O. Kubaschewski, J. A. Catterall, Thermochemical Data of Alloys, London, 1956; K. K. Kelley, U. S. Bur. Min. Bull., no. 383 (1935); C. Maier, U. S. Bur. Min. Bull., no. 324 (1930).

SUBMITTED: October 7, 1961

Fig. 2. Equilibrium diagrams liquid-vapor in the Cd-Zn system.  
(1) 200 mm Hg; (2) 760 mm Hg; (3) 2280 mm Hg; abscissa: molar parts.

Card 2/3

GOYFMAN, M.A.; EDEL'SHTEYN, Ya.M.

Measures for the control of microsporosis caused by *microsporum*  
*felineum*. Vest. dermat. i ven. 38 no.11:57-58 N '64. (MIRA 18:4)

1. Khersonskiy oblastnoy kozhno-venerologicheskoy dispensar (glavnyy  
vrach M.A.Goyfman).

EDEL'SHTEYN, Yakov Samuilovich.

EDEL'SHTEIN, Iakov Samuilovich. ...Geologicheskii ocherk Minusinskoi kotloving i prilegaiushchikh chastei Kuznetskogo Ala-Tau i Vostochnogo Saiana. Leningrad, AN SSSR, 1932. 59 p.

"Spisok literatury": p. 57-59.

NN

So: LC, Soviet Geography, Part II, 1951/Unclassified.

EDEL'SHTEYN, YA. S.

The structure of surface and fundamental geomorphological particulars of northern regions of the USSR. *Geologiya i Polezuyeye Iskopayemye Sovera SSSR* Vol. 1, 1935

So: *Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta*, GUSMP, Council of Ministers, Vol. 201, 1948

EDEL'SHTEYN Yakov Samuilovich.

Instructions for the geomorphological study and cartography of the Urals. Leningrad,  
Izd-vo glavsevmorputi, 1936. 90 p.

EDEL'SHTEIN, Yakov Samuilovich.

A geological survey of the Minusinsk Valley and the adjoining section of  
Kuznetsk Ala-Tau and the eastern Sayans Leningrad, Lzd, akad, nauk SSSR, 1938. 59 p.  
Map. (Akademiia nauk SSR - Institut geologicheskikh nauk.  
Ocherki po geologii Sibiri (no. 3)

1ST AND 2ND SECTIONS										3RD AND 4TH SECTIONS									
EDU' SHTEYN, Ya																			
PROCEDURES AND PROPERTIES INDEX																			
<div>CA</div>										<div>2</div>									
<div>ALBRIGHT Petrovich Karpinski 1946-1936. Ya.</div> <div>Soviet Acad. Sci. No. 2, 161(1936).</div> <div>F. H. Rathmann</div>																			
<div>ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION</div>																			
<div>1ST AND 2ND SECTIONS</div>										<div>3RD AND 4TH SECTIONS</div>									

EDEL'SHTAYN, Ya.S.; SHITIKOV, M.F., redaktor; VODOLAGINA, S.D., tekhnicheskii redaktor.

[Short methodological manual on geomorphological observations in the field] Kratkoe metodicheskoe rukovodstvo dlia proizvodstva geomorfologicheskikh nabludeni v pole. Moskva, Gos. izd-vo geologicheskoi lit-ry Ministerstva geologii SSSR, 1947. 65 p. [Microfilm] (MLR 8:1) (Geology, Structural) (Physical geography)



EDEL'SHTEIN, YAKOV SAMUILOVICH

EDEL'SHTEIN, IAKOV SAMUILOVICH. Osnovy geomorfologii; kratkii kurs ... dlia geologorazvedochnykh institutov i geologicheskikh spetsial'nostei vuzov. Izd. 2., ispr. i dop, Moskva, Gos. Izd-vo geolog. lit-ry, 1947. 398 p.  
"Glavneishaya literatura": p. 393-~~/394/~~

DLC: QB54.E34 1947

SO: LC, Soviet Geography, Part I, 1961, Uncl.

EDEL'SHTEYN, Ya.S., prof.

"Geology of the U.S.S.R." and the 1:1,000,000 geological map  
of the U.S.S.R. Vest. LGU 2 no.6:87-94 Je '47.

(MIRA 12:9)

(Geology)

EDEL'SHTEIN, YA. S.

IA 29T50

USSR/Geophysical Prospecting  
Geography

Jul/Aug 1947

"Physical Geographic Science during Thirty Years of  
Soviet Rule," Ya. S. Edel'shtein, 14 pp

"Iz Vsesoyuz Geog Obshchestva" Vol LXXIX, No 4

Historical account of the various physical geographic  
works which have been accomplished under the Soviet  
regime. Discusses the various explorations which  
have been made of the more important Russian river  
systems and studies of the seas in and around Russia,  
mountain peaks, and mountain ranges.

LC

29T50

EDEL'SHTEIN, IAKOV SAMUILOVICH, ED.

Explanatory notes to the geomorphological map of the Urals, scale 1:500,000. Moskva,  
Gos. izd-vo geol. lit-ry, 1948. 94 p. (Map 52-88)

G7002.U72C2 1945.R8 Suppl.

1. EDEL'SHTEYN, YA. S.
2. USSR (600)
4. Geology and Geography
7. Principles of Geomorphology. Ya. S. Edel'shteyn. (Second edition, revised and completed, Moscow-Leningrad, State Geological Press). Reviewed by Yu.K. Yefremov. Sov. Kniga, No. 3, 1948.

9. [REDACTED] Report U-3081, 16 Jan. 1953. Unclassified.

124-57-2-2436

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 132 (USSR)

AUTHORS: Shikhobalov, S. P., Krasnov, V. M., Maksutova, T. D., Tseyts, V. V., Edel'shteyn, Ye. I.

TITLE: Experimental Investigation of the Stresses in a Hydraulic-turbine Blade (Eksperimental'noye issledovaniye napryazhennogo sostoyaniya lopasti vodyanoy turbiny)

PERIODICAL: V sb.: Vopr. prochnosti lopastey vodyanoy turbiny. Leningrad, Izd-vo LGU, 1954, pp 174-216

ABSTRACT: Presentation of an experimental investigation of the stresses prevailing in a hydraulic-turbine blade subjected to the action of a pressure uniformly distributed over its working surface. The investigation was conducted by means of the photoelastic method, wherein the model was "frozen" and subsequently sectioned off. The model was made of bakelite; the bakelite resin was cast into a mold made of a readily fusible alloy. The uniform pressure was exerted by means of a system of glass rods located vertically on the working surface of the blade. In the determination of the stresses due to the edge effect, use was made of data on the "edge effect" in a bakelite wedge having a thickness equal

Card 1/2

124-57-2-2436

**Experimental Investigation of the Stresses in a Hydraulic-turbine Blade**

to the thickness of the blade profile and subjected to the same thermal and other conditions as the blade model, but free of any external forces. It is shown that in the bakelite used an "edge effect" arises as a result of desiccation, i. e., the separation of component substances, mainly water and phenol, and that a working medium may be found in which the "edge effect" does not occur. In a practical attempt to avoid any "edge effect" the model was loaded in a water-glycerol mixture and was protectively coated with latex. The interpretation of the stress conditions in the blade was performed according to the formulas of three-dimensional photoelasticity. The results lead to the conclusion that the blade, considered as a shell with variable thickness, is subjected to pure moment stresses. A comparison with L. M. Kachanov's solution (Rzh Mekh, 1955, abstract 906) is also adduced.

V. M. Krasnov

1. Turbine blades--Stresses    2. Stress analysis

Card 2/2

Edel'shteyn, E.I.

DATE: 10/20/2011

**Investigational. Not for sale.**

Polysulfonates—optically active terephthaloyl isopropylidyl triarylmethyl sulfonates. *J. Polym. Sci. Polym. Chem. Ed.* 1969 (Optical Polarization Method for Stereo Analysis). 7, 11-21. Formulas 129 and 130. [Lithography]. Tokyo: The Institute of Physical and Chemical Research, 1969. 15-21. 12 refs.

Surg. Md.: S.P., Mikhelevskiy; Tech. Md.: S.D., Fedotkin;  
Surgical Board: S.O., Gerasimov, V.N., Krasnov, P.D., Malinovsky,  
S.I., Ivanovskiy, P.M., Frolov, S.B., Baryshnikov and T.G. Meditsinov.

REMARKS: This evaluation is intended for evaluation and engineering assessment of the experimental stress analysis at machine parts and structural components.

[illegible][illegible]

5. Invited, Jim (Geothermal). Interactions with Optical Polarization  
Methods of the Geothermal Academy of Sciences

II. PROCEED TO SETTING UP DISTRIBUTION MATERIALS FOR  
INTER-DEPARTMENTAL AND PEO-DEPARTMENTAL PROVIDED

6. Colloquary 8.7, same problem as the investigation of the Three Fundamental Problem by the Optical Polarization Method

7. Johnson, J. O., and G. J. Anderson. Determination of Colored Ions Assisted by Theory IV of Strength in Three-Dimensional Phase Space

8. Frederick, V.H. On Electromagnetic Induction in Particulate Media

9. **Problem 11.** On the solution of a Three-Parameter Problem by the Systematic Method

27. Example 2d. (Carathéodory). Use of a Set Function for Hereditarily the Sum of Normal Stresses in the Two-Dimensional Problem of Elasticity

### III. OPERATING SYSTEM REVISION

19. Matheson, J. J. Optically Active Materials Found in Laboratory Practice

20. **Boydell, J. L., and J. A. Macgregor.** Use of Graft Polymers as Spindle Lubricants for the Synthesis of New Dynamically Active Materials

21. **Polymers, Inc. (Czechoslovakia)**

#### IV. DOCUMENTS FOR OFFICIAL-POLICE/INTELLIGENCE USE

22. Mei'ol'ppen, M. Experiments of the Scientific Research Institute for Medicinal and Industrial of the Leningrad State University for Stress Analysis by the Optical Polarization Method.  
Sept 3/12

24. **Mal'Yukhin, N. G.** On the Use of the Optical Polarization Method of Solving Problems for the Solution of Boundary Problems in the Theory of Elasticity.



EDEL'SHTEYN, Ye. I.

Physicists L. M. Kachanov, Ye. I. Edel'shteyn, G. V. Vinogradov, G. N. Kuznetsov, M. P. Volarovich, and A. V. Stapanov and geologists F. I. Vol'fson, V. A. Aprodov, N. I. Borodayevskiy, and Yu. S. Shikhin -- "On the Problems of Modeling Tectonic Phenomena."

paper presented at the First All-Union Conference on Tectonophysics, Moscow, 29 Jan - 5 Feb 1957.

*Summary*

GRISHIN, A.S., inzh.; KONSTANTINOV, L.P.; KOROL'KO, Ye.I.; EDEL'SHTAYN, Ye.I.;  
EYGELES, R.M.

Destruction of brittle bodies. Trudy VNIIBT no.1:131-133 '58.  
(MIRA 11:12)

(Rocks)

EDEL'SHTEYN, Ye.I. (Leningrad)

Using laminated models in solving the volumetric problem of  
photoelasticity. Izv. An SSSR. Otd. tekhn. nauk Mekh. i mashinostr.  
no. 1:30-38 Ja-F '61. (MIRA 14:2)  
(Photoelasticity)

EDEL'SHTEYN, Ye.I.

Senarmont's compensation method. Issl. po uprug. i plast. no.2:  
153-166 '63. (MIRA 16:8)  
(Photoelasticity)

EDEL'SHTEYN, Ye.I.; EYGELES, R.M.

Fracture of rocks under pressure. Issl. po uprug. i plast.  
no.2:132-152 '63. (MIRA 16'8)  
(Deformations (Mechanics)) (Boring)

*Idel'shteyn, Y.V.*

**IDEL'SHTEYN, Y.V.; TSEYTLIN, M.Ya.**

**Urgent problems in the management of machine-tractor stations,  
Mekh. sil'. hosp. [8] no.12:19-20 D '57. (MIRA 10:12)**

- 1. Ministerstvo sil'skogo gospodarstva URSS.  
(Machine-tractor stations)**

Edel'shteyn-Udianskiy, P.G.

TUCHKEVICH, T.M., kandidat ekonomicheskikh nauk (Khar'kov); ADAMENKO, N.V.,  
kandidat ekonomicheskikh nauk, inzhener (Khar'kov); KRIMBUS, G.Kh.,  
inzhener (Khar'kov); LEMBERSKIY, A.Ya., (Khar'kov); NAUMOV, G.K.,  
kandidat ekonomicheskikh nauk (Khar'kov); SILAYEV, N.I., kandidat  
ekonomicheskikh nauk, dotsent (Khar'kov); USHAKOV, P.S., (Khar'kov);  
EDEL'SHTEYN-UDYANSKIY, P.G., kandidat ekonomicheskikh nauk (Khar'kov).

Qualities and defects of a manual on transportation economics ("Tech-  
nical manual for railroad engineers." Volume 11, "Planning and  
accounting in railroad transportation." Reviewed by T.M. Tuchkevich  
and others.) Zhel.dor. transp. 38 no.8:91-93 Ag '56.

(MIRA 9:10)

(Railroads--Management)

EDEL'SKIY, F.

~~On the "Slava". Voen.snan. 30 no.12:10 D '54. (MLRA 8:7)~~

1. Predsedatel' oblastnogo komiteta organizatsii Vsesoyuznogo  
dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.  
(Military education) (Whalers)



EDEL'SON, A. M. Engr.

The Application of Metal Spraying at the Stalingrad Tractor Plant im. F.E. Dzerzhinskiy

Vest Mash p. 30, Oct 51

EDEL'SON, A. M.

232T74

USSR/Metallurgy - Metallization

Jun 52

"Utilization of Direct Current in EM-3 Electric  
Spraying Gun," A. M. Edel'son, Engr

"Avtogen Delo" No 6, p 23

Discusses use of dc arc as heat source in elec  
sprayers for metal coating. Conversion to dc per-  
mitted increase in rate of wire feed to 2.30 m/min.  
This corresponds to 2.5 kg of 1.2-mm steel wire  
pulverized per hr instead of 1 kg in case of ac  
operation.

232T74

EDEL'SON, A. M.

Nov 52

USSR/Metallurgy - Metallization, Equipment

"On the Experience of Using an Electric Metal Spraying Gun of EM-6 Type," Engr A. M. Edel'son

Avtogen Delo, No 11, no 26-28

Describes machine-mounted gun designed at VNIIAvtogen for spraying large amounts of metal and discusses application of gun for reclamation of large worn parts, such as rotor of rubber-mixing machine. Repair of one journal required 20 kg of wire to be sprayed and was completed in 3 hrs. Analyzes performance of some gun parts.

266T53



EDEL'SON, A. M.

~~EDEL'SON, A. M.~~, SHASHKOV, A. N., red.; ANTOSHINA, Ye. V., red.; MATVEYEVA,  
Ye. N., tekhn. red.; SOKOLOVA, T. F., tekhn. red.

[Operation of apparatuses for metallisation] Eksploatatsiia metal-  
lizatsionnykh apparatov. Moskva, Gos. nauchno-tekhn. izd-vo mashino-  
stroit. lit-ry, 1955. 106 p. (Moscow, Vsesoiuznyi nauchno-issledovatel'-  
skii institut avtogennoi obrabotki metallov. Rukovodiashchie materialy,  
no. 5). (MIRA 10:11)

(Metal spraying--Equipment and supplies)

IRLIN, P.; HINLSON, A.

Metal spraying in repairing and rstering machine parts.  
Frem. keep. no. 10:34-37 0 '55. (MIRA 9:4)  
(Metal spraying)

SOV/137-57-1-968

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 125 (USSR)

AUTHORS: Irlin, P. I., Edel'son, A. M.

TITLE: Metallization in the Maintenance and Repair of Parts (Metallizatsiya pri remonte i vosstanovlenii detaley)

PERIODICAL: Inform-tekhn. sb. M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 76, pp 34-37

ABSTRACT: The 'Moskabel' plant has introduced a novel method for the repair of wheel running surfaces, rollers, shafts, and other parts by means of spray metallization; application of this method has almost entirely obviated any need for replacing worn parts with new ones. An electrometallizing equipment and the process procedure for metallization are described.

M. M.

Card 1/1

*Edel'son, A. M.*

AID P - 4292

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 17/25

Authors : Edel'son, A. M., and L. S. Kartashov, Eng.

Title : Restoration of the drive shaft of a horizontal forging machine by metal-coating.

Periodical : Vest. mash., #2, p. 57-58, F 1956

Abstract : Restoration of worn-out metal on a drive shaft by a sprayed metal coating is described.

Institution : None

Submitted : No date



EDEL'SON, A.M., inzhener.

Reconditioning turbine shafts by metal spraying. Blok.sta.27  
no.2:55 F '56. (MLRA 9:6)  
(Turbines--Maintenance and repair) (Metal spraying)

Edel'son, A.M.

USSR/ Metallurgy - Metal plating

Card 1/1 Pub. 128 - 23/33

Authors : Edel'son, A. M.

Title : The use of metal spray plating in repairing equipment

Periodical : Vest. mash. 36/1, 66-67, Jan 1956

Abstract : Metal plating of used wire stripping bands by means of the EM-3A spraying apparatus, is described. The plating was conducted on a turret lathe on which the apparatus was installed at a distance of 120 m from the sprayed component. The voltage utilized by the apparatus was 30 volts, and the air pressure 6 atm. The component was rotated 15 times a minute at a feed rate of 3 mm per revolution. Drawing.

Institution : .....

Submitted : .....

EDEL'SON, A.M., inzhener.

A three-wire head for metal spraying. Vest. mash. 36 no.8:  
64-66 '56. (MLRA 9:10)

(Metal spraying)

*F. DEL'SON, A. M.*

ANTONOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A., inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN, V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZHEKOV, P.P., inzh.; KARAN, Yu.B., inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.; KRZHECHKOVSKIY, A.K., inzh.; KUZNETSOVA, Ye.I., inzh.; MATVEYEV, N.N., tekhnik; MOROZOV, M.Ye., inzh.; NEKRASOV, Yu.I., inzh.; NECHAYEV, V.D., kand.tekhn.nauk; NINBURG, A.K., kand.tekhn.nauk; SPEKTOR, O.Sh., inzh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., inzh.; KHROMOVA, TS.S., inzh.; TSEUNEL', A.K., inzh.; SHASHKOV, A.N., kand.tekhn.nauk, dots.; SHELECHNIK, M.M., inzh.; SHUKHMAN, D.Ya., inzh.; ~~DEL'SON, A.M.~~, inzh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of Autogenous Working of Metals] Mashiny i apparty konstruktii VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1957. 173 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut avtogennoi obrabotki metallov, no.9)

(Gas welding and cutting--Equipment and supplies)